Drawing with Light

Kit contains:

- cardboard flashlight template
- ultraviolet LED light
- coin battery
- tiny adhesive foam square
- glow-in-the-dark paint
- index card
- cotton swab

You will need: scissors and tape.

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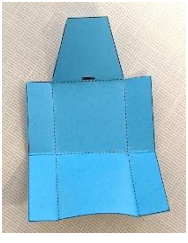
INSTRUCTIONS

Step 1. Use the Q-tip as a paintbrush to cover the index card with all of the glow-in-the-dark paint. It will not be pretty, and that's okay!

Colors will vary.

Step 2. Let the paint dry completely. This is the hardest part.

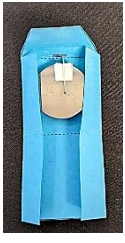


Step 3. Cut out your cardboard flashlight along the solid lines. Fold all of the flaps along the dashed lines.

Step 4. Peel the sticker backing off ONE side of the adhesive foam square. Stick it near the edge on the flatter positive (+) side of the battery.

Step 5. Poke the wire leads of the LED light through the slit in the cardboard flashlight.

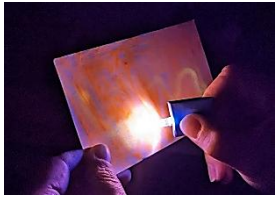
Step 6. Sandwich the battery between the wire leads. Keep the shorter wire flat along the negative (–) side. Bend the longer wire over the foam square on the positive side. It should not touch the battery. This keeps the circuit open and the light off.



Step 7. Fold the flaps on the cardboard flashlight and tape it shut.

Squeeze your flashlight to close the circuit and turn on the light.

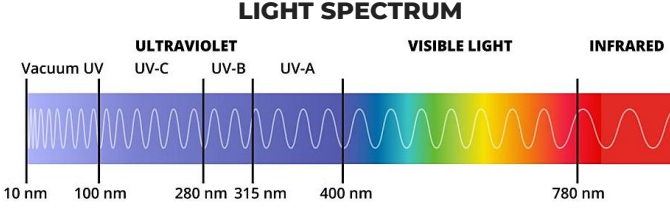
Step 8. Bring your index card and ultraviolet (UV) flashlight to a dark area. Use the flashlight to slowly draw with UV light on the painted surface. The drawing will glow in the dark.



WHAT'S GOING ON?

Your glow-in-the-dark paint is **phosphorescent**. You charge it up by exposing it to bright light. The light gets stored in the paint for a short amount of time, like a battery. Then, it emits that stored-up light. When that light is emitted in the dark, you get the effect of glowing.

The superpowered way to charge phosphorescent paint is with **ultraviolet (UV) light**. Light travels in waves. Different colors of light have different wavelengths. Humans can see some of them, but not UV waves. It still LOOKS like light, you just can't see all its properties. The sun emits UV rays, and so does your flashlight!



Source: https://aquaultraviolet.com

CAUTION: DO NOT SHINE UV LIGHT IN EYES!